

**DRAFT SCREENING SITE INVESTIGATION  
FOR THE  
L. GOLDSTEIN'S SONS INCORPORATED SITE  
WISSINOMING AVENUE AND KNORR STREET  
PHILADELPHIA, PENNSYLVANIA  
ECKEL SITE NUMBER 61**

Prepared for

U.S. Environmental Protection Agency Region 3  
Hazardous Site Cleanup Division  
1650 Arch Street  
Philadelphia, PA 19103

Prepared by

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## **1.0 INTRODUCTION**

Under Remedial Action Contract (RAC) No. 68-S7-3002, Work Assignment No. 048-PAPA-03ZZ, U.S. Environmental Protection Agency (EPA) Region 3 tasked Tetra Tech, Inc. (Tt), to assist EPA Region 3 in the assessment of properties suspected to have been former lead smelter foundries. Tt subcontracted completion of this work assignment to Tetra Tech EM Inc. (Tetra Tech).

Former lead smelter sites nationwide were identified in an April 2001 article published in the American Journal of Public Health by Eckel, and others (Eckel study) (Reference [Ref.] 1). The majority of these lead smelters operated prior to 1964 and closed before the current environmental regulations were instituted. As part of the Eckel study, soil samples were collected from several of the identified former lead smelter properties. Results from the analysis of these soil samples indicated that concentrations of lead exceeded EPA's recommended screening level for lead in residential soils. The results of the Eckel study indicate that the air disposition of lead into soils from the former smelter operations may present an ongoing public health concern due to exposure of residential populations, especially children, located in the vicinity of these former lead smelters, to soils containing elevated concentrations of lead (Refs. 1, 2, and 3).

The Eckel study identified 77 properties that may have been formerly used as lead smelters within EPA Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia). EPA Region 3 is currently investigating these 77 properties. The objective of EPA's investigation of these properties is to (1) determine the potential for lead-contaminated soil to be present at the former lead smelter site or nearby properties (2) identify any populations that may be at risk to exposure to this soil, and (3) determine if soil sampling is warranted at any of these sites or nearby properties.

The following activities were completed as part of the initial screening investigation of each of these former lead smelter sites: (1) verify the former lead smelter address listed in the Eckel

study through historical Sanborn fire insurance maps, tax parcel information, and/or contacting local agencies, (2) determine if the site is listed in EPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database, (3) determine through census information and existing maps the number of schools, daycare centers or recreational parks that exist near the former lead smelter site, (4) determine the population residing within a 4-mile radius of the site, (5) conduct a windshield reconnaissance of the site and surrounding area to document the current land use, identify any exposed soil and verify the existence of any schools, daycare centers or parks in the immediate area, and (6) review all information acquired to determine if the collection and analysis of soil samples is warranted at the site or at any nearby property.

This report summarizes the findings of the tasks outlined above for the former lead smelter known as the L. Goldstein's Sons Incorporated site located at Wissinoming Avenue and Knorr Street, Philadelphia, Pennsylvania, 19135. Each former smelter property was given a number in Eckel's study. The Eckel study number for this site is 61 (Ref. 1).

## **2.0 SITE LOCATION**

The former L. Goldstein's Sons Incorporated was located at Wissinoming Avenue and Knorr Street, Philadelphia, Pennsylvania, 19135. The geographic coordinates of the former L. Goldstein's Sons Incorporated facility are 40.01777778 north latitude and 75.035 west longitude on the Philadelphia, Pennsylvania Quadrangle, 7.5 minute series, United States Geological Survey topographic map (see Appendix A, Figure 1). The site is not currently listed in EPA's CERCLIS database (Ref. 4). An aerial photograph of the vicinity of the former lead smelter site has been included in Appendix A, Figure 2. This aerial photograph reveals the exposed soils and any identified areas of potential concern such as schools, daycare centers, or parks located within a half-mile radius of the site.

### 3.0 SITE OBSERVATIONS

On December 16, 2005, Tetra Tech completed a non-sampling windshield reconnaissance of the L. Goldstein's Sons Incorporated site and surrounding area. A photographic record of the current site conditions is included in Appendix B. Figure 3, shows the current layout of the site and surrounding area as observed during Tetra Tech's site reconnaissance. The following observations were recorded:

- The site is located in an area of Philadelphia occupied by a mix of commercial and industrial properties. Wissinoming Avenue does not intersect Knorr Street. Wissinoming Avenue is located one block to the east of Knorr Street. New State Road is the only road that intersects Knorr Street. It appears that prior to the construction of Interstate 95, Wissinoming Avenue was located in the vicinity of what is now named New State Road. The intersection of Knorr Street and New State Road is the assumed former location of the L. Goldstein's Sons site.
- No evidence of the former lead smelter operation is visible in the vicinity of New State Road and Knorr Street. This area is characterized by large industrial buildings and commercial development.
- Interstate 95 is located to the north of this area. The Delaware River is ¼ mile south of this area.
- Areas of exposed soil are located to the south and east of the area in the immediate vicinity.
- No schools, daycare facilities or residences were identified in the immediate vicinity of the site. A public park called Disston City Park is located to the north of Interstate 95, north of the site.

#### 4.0 POTENTIAL TARGETS

Potential targets identified that may be exposed to lead-contaminated soils remaining in the vicinity of the former L. Goldstein's Sons Incorporated site include any workers that may be employed at or in the nearby vicinity of the former site. The residential population within a 4-mile radius of the site is summarized in the table below (Ref. 5).

**Population Within a Four-mile Radius of the Site**

<b>Distance Ring (miles)</b>	<b>Population (number of persons)</b>
0.0 to 0.25	242
0.25 to 0.5	4,409
0.5 to 1.0	22,610
1.0 to 2.0	80,274
2.0 to 3.0	115,804
3.0 to 4.0	136,771

Source: U.S. Department of Commerce. Landview V Environmental Mapping Software based on the Bureau of Census 2000 Population Data. December 15, 2005.

No schools or daycare centers have been identified in the area directly surrounding the site. Two schools have been identified within one-half mile of the site, including the Saint Leos School approximately one-quarter mile northwest and Our Lady of Consolation School, approximately one-half mile northeast. Disston City Park is located approximately 450 feet north of the intersection of New State Road and Knorr Street.

## **5.0 FINDINGS AND RECOMMENDATIONS**

The site is located in an area of Philadelphia characterized predominately by industrial development. Exposed soils were observed in the vicinity of the assumed former location of the lead smelter; however, potential targets identified in this area is limited to workers. No parks, schools, or daycare facilities were identified in the vicinity directly surrounding the area of the former lead smelter; therefore, due to the lack of potential targets in the vicinity of the former lead smelter the collection and analysis of soil samples is not recommended for this site at this time.

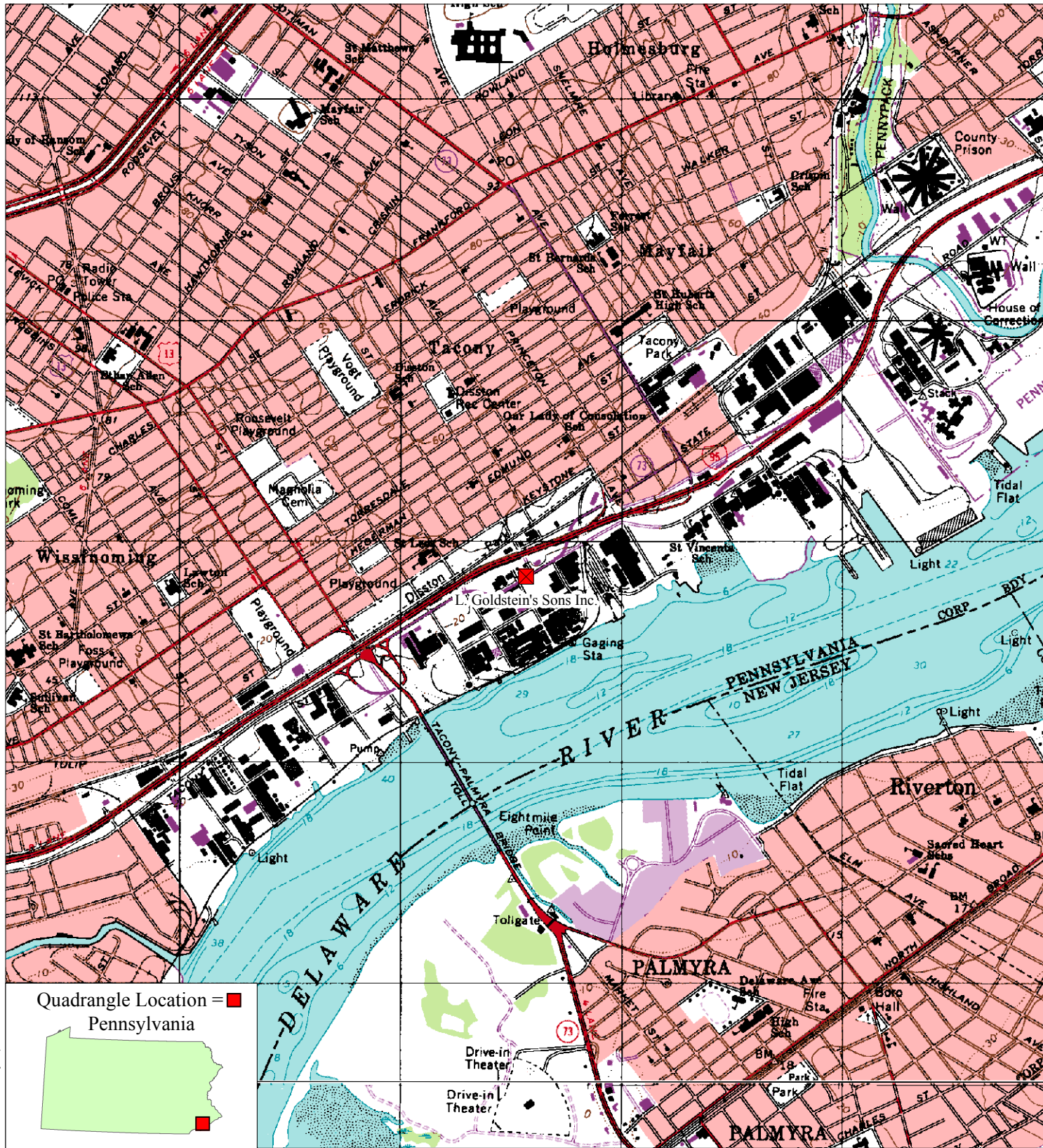
## REFERENCES

1. Eckel, W.P., Rabinowitz, M.B., Foster, G.D. American Journal of Public Health.  
“Discovering Unrecognized Lead-Smelting Sites by Historical Methods”. April 2001.
2. Pennsylvania Department of Health. Suspected Former Lead Smelter Sites: A Potential Risk Factor for Childhood Lead Poisoning. August 2004.
3. U.S. Environmental Protection Agency (EPA). Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12. July 14, 1994.
4. U.S. EPA. Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) database. On-Line Address:  
<http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>
5. U.S. Census Bureau. State and County Quick Facts. Accessed On-Line on December 15, 2005. On-Line Address: [quickfacts.census.gov/qfd/states/42.html](http://quickfacts.census.gov/qfd/states/42.html).



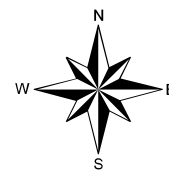
## **Appendix A**

### **Figures**



0 1,000 2,000  
Feet  
Scale in Feet

L. Goldstein's Sons Inc.  
Wissinoming Avenue and Knorr Street  
Philadelphia, Pennsylvania  
Eckel Site No. 61



**Figure 1**  
Site Location Map



Source: Modified from USGS, Philadelphia, Pennsylvania-New Jersey Quadrangle, 1995.





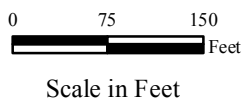
<p>Legend</p> <ul style="list-style-type: none"> <li>Approximate Site Location</li> <li>School</li> <li>0.5-Mile Radius</li> <li>Parks</li> </ul> <p>0 400 800 Feet</p> <p>Scale in Feet</p>	<p>L. Goldstein's Sons Inc.</p> <p>Wissinoming Avenue and Knorr Street</p> <p>Philadelphia, Pennsylvania</p> <p>Eckel Site No. 61</p>	
	<p><b>Figure 2</b></p> <p>Aerial Photograph</p> <p>Source: Modified from U.S. Department of Agriculture, Service Center Agencies, and ESRI, 2005</p>	



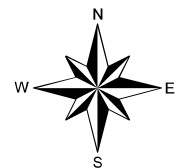


**Legend**

- Pervious Surface
- Buildings



L. Goldstein's Sons Inc.  
Wissinoming Avenue and Knorr Street  
Philadelphia, Pennsylvania  
Eckel Site No. 61



**Figure 3**  
Site Layout Map



Source: Modified from the City of Philadelphia 1996, 2000, and 2003.

**Appendix B**  
**Photographic Documentation**



## *Photographic Documentation*

**Site Name:** L. Goldstein's Sons Incorporated Eckel Number 61

**Prepared by:** Tetra Tech EM Inc.

**Location:** Wissinoming Ave and Knorr St, Philadelphia, PA

**Photographer:** [REDACTED]

### **Photograph No. 1**

**Photograph Date:** December 16, 2005

**Description:** Intersection of New State Road (Wissinoming Avenue) and Knorr Street.



### **Photograph No. 2**

**Photograph Date:** December 16, 2005

**Description:** View of Knorr Street and New State Road intersection facing south.





## *Photographic Documentation*

**Site Name:** L. Goldstein's Sons Incorporated Eckel Number 61

**Prepared by:** Tetra Tech EM Inc.

**Location:** Wissinoming Ave and Knorr St, Philadelphia, PA

**Photographer:** [REDACTED]

### **Photograph No. 3**

**Photograph Date:** December 16, 2005

**Description:** View facing north of Knorr Street showing Brennan Auto Shop, other retail stores, and Interstate 95.

